Since 1996 PolyAn develops and manufactures consumables for multiplex diagnostic and LifeScience research. We serve well-known diagnostic companies, providers of analytic systems for agricultural and environmental applications as well as research organizations for biomarker and pharmaceutical screening.

**Microarrays.** PolyAn is one of the leading producers of functionalized substrates. Additionally, we also offer Grace Bio-Labs nitrocellulose film slides in Europe. Our wide range of surfaces, substrates and handling tools enables our customers to easily select the most suitable substrate for their specific application. Our portfolio includes both functionalized glass and ultra-transparent plastic slides, coverslips, reactive membranes and 96-well microplates. Available surfaces to immobilize biomolecules range from 2D-silanes, 3D-reactive nano and hydrogels to matrices for bio-orthogonal coupling via click-chemistry.

**Reactive Microplates.** PolyAn offers 3D-functionalized surfaces for covalent immobilization of biomolecules. This includes amine binding 3D-NHS, nucleophilic binding 3D-Epoxy and Streptavidin-coated plates.

**Functionalized Plates for ELISA.** Our amine-binding microplates are useful to immobilize biomolecules that inefficiently coat by passive adsorption. We offer amine-binding surfaces, providing a convenient method to covalently immobilize biomolecules.

**Microparticles.** The portfolio comprises monodisperse polymethyl methacrylate (PMMA) microparticles for multiplex bead assays as well as calibration of flow cytometers and fluorescence imaging systems. Our microparticles can be color-encoded with a wide range of fluorescent dyes and functionalized with reactive 3D-matrices. Using PMMA ensures an excellent optical brilliance and a low autofluorescence compared to polystyrene. Its excellent biocompatibility makes our beads suitable for use in combination with living cells and organisms.

**Calibration Tools for Fluorescence Imaging.** Re-usable calibration slides for cell assays and fluorescence imaging systems.

**Molecular Surface Engineering (MSE).** We can equip almost any substrate with reactive matrices for selective immobilization and anti-fouling surfaces to reduce cell adhesion and unspecific binding, respectively. As part of our MSE services, we offer functionalized consumable and substrate materials for OEM applications which are tailored to specified customer requirements.

PolyAn is certified according to DIN ISO 9001. Our production facilities also include a class 5 cleanroom.

**COMPETENCIES**

**Consumables for Microarrays**
- Functionalized Glass or Low Auto-fluorescence Plastic Slides for DNA, Peptide or Protein Arrays
- 96-well Plates, Coverslips, Membranes & Customized Formats with Reactive Surfaces to Immobilize Biomolecules

**Microparticles**
- Monodisperse PMMA Beads (Color-encoded or Transparent)
- 25-Plex Bead Array
- 3D-Carboxy & Streptavidin Surfaces
- Beads for Click-Chemistry

**Calibration Tools for**
- Fluorescence Microscopy
- Flow Cytometry & FACS
- Cell Assays

**Services**
Customized Functionalization of Consumables, e.g. to Reduce Unspecific Adhesion or Reactive Surfaces for Immobilizing Enzymes or Catalysts

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PolyAn is specialized in modifying surfaces using Molecular Surface Engineering.
DiagnostikNet-BB is a network of diagnostics providers, device manufacturers, research institutes, clinics and medical laboratories as well as expert partners across Germany, with its core in the capital region Berlin-Brandenburg. Together we develop and manufacture innovative in-vitro diagnostics.

The network covers the entire value-added chain and offers a broad range of high-quality services and products regarding medical care focusing on laboratory diagnostics, molecular diagnostics, companion diagnostics & personalized medicine. Moreover, we offer products and services for agriculture, environmental, food and veterinary diagnostics. In order to transact business – including comprehensive project management – the Diagnostik-BB GmbH is your competent and reliable partner.